

Mouse anti-Human Platelet Factor 4 Monoclonal Antibody | anti-PF4V1 antibody

Anti-Human Platelet Factor 4 (requires heparin for binding), Purified (Clone: KKO) (Mouse IgG2b)

CATALOG # AAA74215	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

Platelet Factor 4; Monoclonal Antibody; Anti-Human Platelet Factor 4 (requires heparin for binding); Purified (Clone: KKO) (Mouse IgG2b); Platelet Factor 4 (requires heparin for binding); Anti-Human Platelet Factor IV/Heparin; anti-PF4V1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG _{2b} ?
Clone Number	KKO
Specificity	This antibody is specific for Human Platelet Factor IV /heparin complexes.
Form/Format	Purified; IgG buffered in PBS and 0.02% NaN ₃ . (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	104
Applicable Applications for anti-PF4V1 antibody	WB (Western Blot), ELISA
Immunogen	Human Factor IV purified from the supernatant of thrombin activated platelets.
Presentation	Purified IgG buffered in PBS and 0.02% NaN ₃ . (Purified from ascetic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Preparation and Storage	For all formats, store at 4°C. For long term storage (Purified, Biotin, HRPO), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for anti-PF4V1 antibody	Description: Platelet factor IV is a 70 aa protein released from the alpha granules of activated platelets. PF4 is synthesized by bone marrow megakaryocytes and stored in alpha granules as a non-covalent bound tetramer. Platelet factor IV binds with high affinity to heparin and plays a role in inflammation and wound repair. PF4 is a chemoattractant for neutrophils, monocytes and fibroblasts and has been reported to be an immunologic regulator that inhibits suppressor T-cell activity. Heparin-Induced Thrombocytopenia/Thrombosis (HIT/HITT) is a life-threatening complication that manifests itself in a small population of patients exposed to intravenous-heparin. It is characterized by the production of PF4/heparin auto-antibodies. These auto-antibodies bind the PF4/heparin complexes and subsequently bind the Fcγ_{2b} receptor on the platelets surface through their Fc region. This activates the platelets and can initiate clot formation. (clone KKO), unlike (clone RTO) which binds PF4 alone, is specific for PF4/heparin complexes and is seen to have similar binding properties as auto-antibodies found in HIT/HITT.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	292390
NCBI GeneID	5197
UniProt Accession #	P10720; A1L4S0
NCBI Official Full Name	platelet factor 4
NCBI Official Synonym Full Names	platelet factor 4 variant 1
NCBI Official Symbol	PF4V1
NCBI Official Synonym Symbols	PF4A; CXCL4L1; CXCL4V1; PF4-ALT; SCYB4V1
NCBI Protein Information	platelet factor 4 variant; PF4alt; PF4var1; C-X-C motif chemokine 4; platelet factor 4, variant 1 (PF4-like)
UniProt Protein Name	Platelet factor 4 variant
UniProt Gene Name	PF4V1
UniProt Synonym Gene Names	CXCL4V1; SCYB4V1
UniProt Entry Name	PF4V_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/platelet-factor-4-antibody-clone-kko-western-blot-elisa/74215>